energenie

GREEN ENERGY FOR OUR PLANET

EG-PMSU PROGRAMMABLE USB POWER STRIP
USER MANUAL

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1. Introduction

Congratulations with your purchase of this *Energenie Power Manager*. Your EG-PMSU is an advanced surge protector with power management features. Four sockets are individually manageable by the computer via USB interface.

The sockets can be switched on/off by a timer schedule, by user or different events. It is also possible to pre-program the unit event timer schedule (hardware schedule) and then disconnect EG-PMSU from the managing computer. The device can be used as an advanced standby-killer.

1.1. Features

- The main rocker switch enables switching all the sockets on and off
- In addition to it every manageable socket can be switched on and off via the software control window
- The unit can be pre-programmed via hardware-based schedule. The hardware schedule will work even when the managing computer is switched off
- The unit will keep performing the programmed hardware time schedule even after EG-PMSU is disconnected from the power for some time

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- The manageable sockets can then be switched on and off by the schedule, simple typical applications could be: “switch my peripherals on every working day at 8:50 AM” etc.
- The manageable sockets can also be programmed with *Power Manager* software to react whenever a certain event occurs (Windows or other programs start-up/shutdown), simple typical applications could be: “switch my scanner on when I want to scan” or “switch my printer off whenever I exit Windows”
- Real time *Voltage monitor* provides information about the *actual* status of each manageable socket (on or off). This information can be further utilized in various ways (e.g. to check the proper execution of the switching commands)
- The unit can be assigned a network name as a shared LAN resource and can be afterwards accessed and managed from anywhere within the local area network or Internet (provided the managing computer is switched on)

1.2. Specifications

- Input voltage: 110 – 125 V AC, 60 Hz
- Maximum load: 15 A
- Maximum power consumed by EG-PMSU: 2.5 W
- Built-in power supply
- Hardware schedule features:

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- Maximum number of independent hardware schedule events – 16 per socket
- Time interval between the events – from 1 minute to 180 days
- Timer accuracy: no more than 2 seconds error per day providing power is always present. Otherwise there can be an additional (up to 2 seconds) error per each power off.
- Working temperature range: from +10 to +40 °C
- Dimensions: 378 x 98 x 55 mm
- Net weight: 1.0 kg

1.3. Hardware requirements

- Computer running Windows® 2000/XP/Vista or Windows 7 is required for using the *Power Manager* software
- One free USB port

1.4. Package contents

The package contains:

- EG-PMSU
- User manual
- USB cable
- CD with *Power Manager* software for Windows

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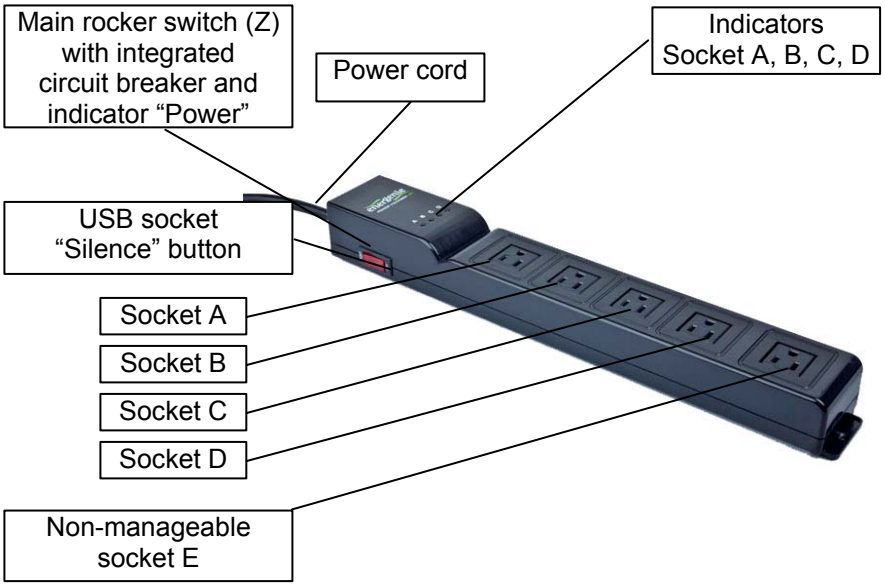
2. Indicators and controls of EG-PMSU

Figure #1



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2.1. Indicators

- *Main rocker switch* Z (see Figure #1 above) is lit – this means that EG-PMSU is connected to the power supply and active. It also means that the non-manageable socket E is switched on.
- The indicator *Socket A (B,C,D)* (see Figure #1 above) is lit – this means that this particular socket is switched on.

2.2. Audible signals

- Long beep – will be heard after EG-PMSU is successfully connected to the computer USB port after the self-test.
- Short beep – will be heard by switching the manageable sockets on and off.
- Continuous beeps – hardware event schedule is lost – for example if the power supply was cut for a long time. These beeps can be stopped by pressing the *Silence button* (see Figure #1 above).
- Alarm beep – will be heard if the managing command cannot be executed. E.g. if there is a command to switch the socket on but EG-PMSU is disconnected from the power supply. The alarm will be heard every second during a minute, after that every 8 seconds. Let EG-PMSU execute the command (e.g. switch EG-PMSU on) to get rid of the alarm beeps.

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3. Installation

- It is strongly recommended to avoid damp or wet places for installation.
- EG-PMSU should be connected to the American type AC wall socket.

3.1. Getting started

- Connect EG-PMSU to the wall socket first and then to the USB socket of the manageable computer or vice versa.
- EG-PMSU can now be switched on and off by means of the *Main rocker switch (Z)*.
- The last socket of EG-PMSU is marked with the letter E. This socket is switched on and off by means of the *Main rocker switch (Z)* and cannot be managed by the computer – so it is called a *non-manageable socket* in this manual.
- If EG-PMSU is switched on then the red indicator inside the *main rocker switch* is lit. In this case the non-manageable socket is now *live* and connected to the power supply.
- The sockets: *Socket A, Socket B, Socket C and Socket D* can be managed or pre-programmed by computer via USB. They are called *manageable sockets* in this manual.

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- The manageable sockets of EG-PMSU can be programmed to be on or off. The current status of each manageable socket is represented by the corresponding indicator which will be lit if socket has power to it.
- If the *Main rocker switch (Z)* (see figure #1 above) is turned off then the manageable sockets cannot be switched on by either *Power manager* software or the hardware schedule.
- As soon as you turn the *Main rocker switch (Z)* on then the *Power manager* software or the hardware schedule will be able to turn the manageable sockets on and off.
- To protect the connected devices from possible high current and short circuit EG-PMSU is equipped with the automatic circuit breaker.

NOTE: If the total power consumption (or peak power) of the devices, connected to EG-PMSU exceeds 1100 Watts, the integrated in the *main power switch* circuit breaker may power EG-PMSU off. In this case, please, remove the excessive load first and then turn the *main power switch* on again to restore the power supply (see figure #1 above).

3.2. *Power Manager* installation

- Insert the *Power Manager* CD into a PC CD-ROM drive.

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If for any reason the automatic setup does not work, then open CD-ROM drive in the *My Computer* window and launch SETUP.EXE from the CD

- Follow instructions of the installation software

4. Power Manager software

The *Power Manager* software is designed to support not only EG-PMSU but also other products of EnerGenie family.

After a successful installation a socket icon will appear in your system tray.

4.1. Managing EG-PMSU

Double click on the socket icon in the system tray or select Open from the popup menu (see Figure #2 below).

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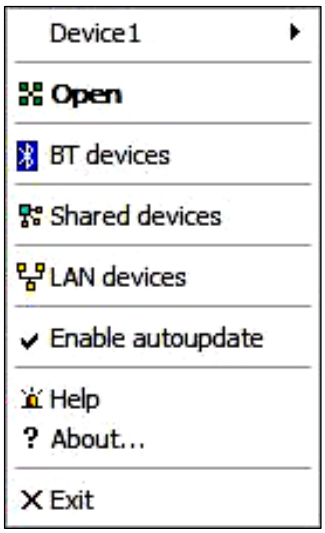
Figure #2



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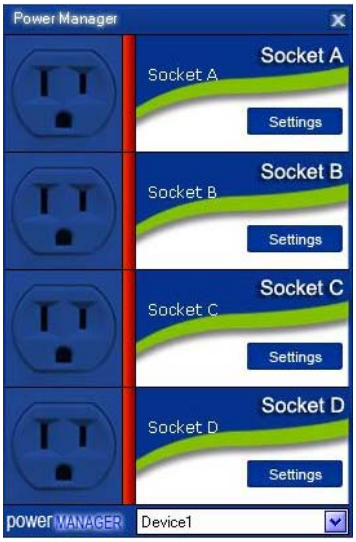
You will get then the window of the main control panel shown on the Figure #3 below.

Figure #3



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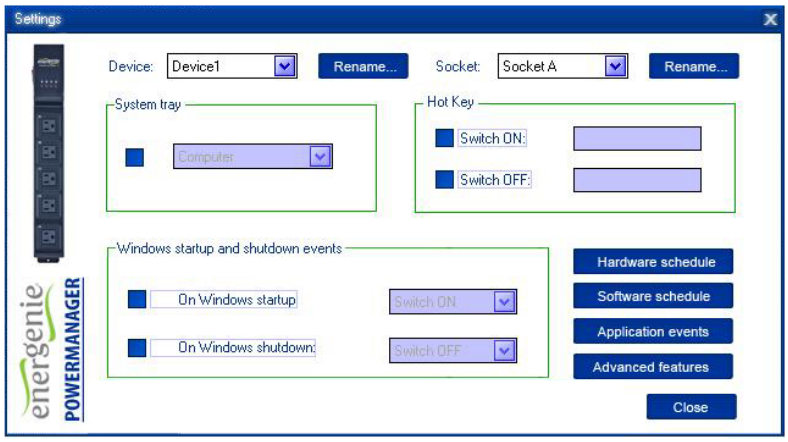
Double click over each socket will switch it on and off (green color means the socket is switched off; red color means the socket is switched on). Click the *Settings button* for each socket to access the *Settings dialog box* (see Figure #4 below).

Figure #4



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You can choose a different device and another socket from the *Device* and *Socket* drop down list-boxes.

- It is possible to give a name to the device and socket (for example *Printer* or *Scanner*) using the *Rename* button
- Check the *System tray* checkbox if you want to put the icon of the socket into the system tray. You can choose the icon from drop down list box. Such icon is a fast way to switch the device connected to the socket on/off or check the device status
- You can also assign a hot key to switch the socket on/off. Check the *Switch ON* and *Switch OFF* checkboxes and specify the hot keys
- To switch the socket on/off on Windows startup (wake up), check the *On Windows startup* checkbox and choose the required action
- To switch the socket on/off on the Windows shutdown (sleep), check the *On Windows shutdown* checkbox and choose the required action

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4.2. Setting up the hardware schedule

Using the *Hardware schedule* button available from the *Settings* window you can create the hardware timer schedule (see Figure #5 below). To add a new record, click the *Add* button.

Figure #5

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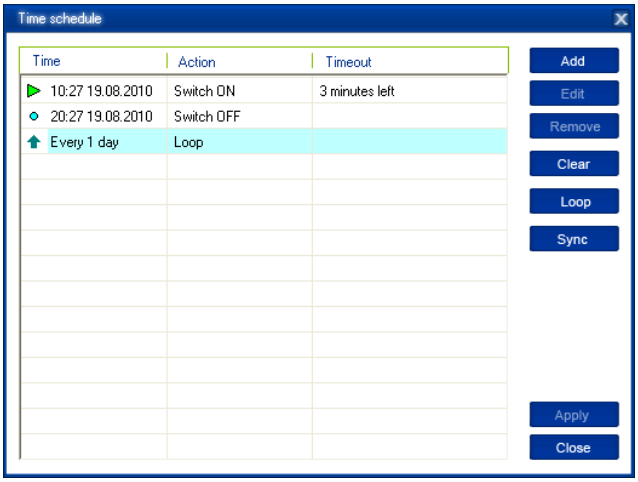

- The window *Add entry* will appear (see Figure #6 below). In the dialog box, specify the required time and the action

Figure #6

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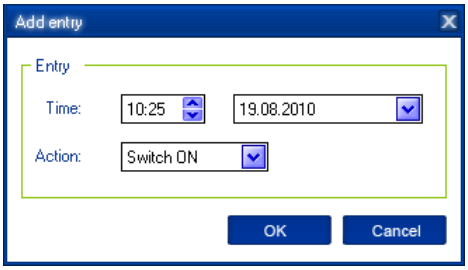

- To edit the record, select it and click the *Edit* button or just double click on the entry. The window Edit entry will appear (see Figure #7 below)

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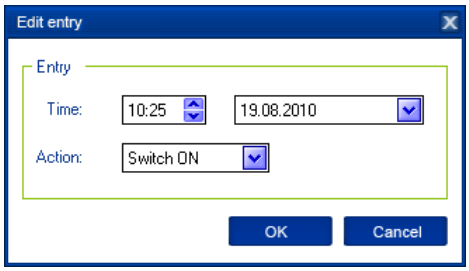
Figure #7



- To remove the record, select it and click the *Remove* button (see Figure #5 above). You can select multiple entries using *Ctrl* and *Shift* keys. You can also remove all entries from the schedule by clicking the *Clear* button (see Figure #5 above)
- To repeat your event (for example if you want to perform the same events every day) use the *Loop* button (see Figure #5 above) and specify the loop time period in the *Edit loop period* window (see Figure #8 below)

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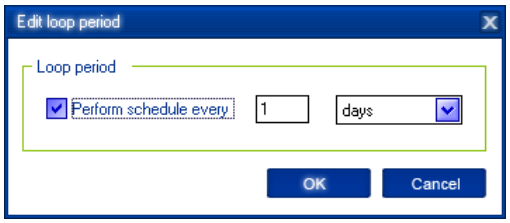
Figure #8



- After the schedule record has been created, click the *Apply* button (see Figure #5 above) to save the hardware timer schedule changes. In case of incorrect entries, these will be highlighted and an error message will appear. Click the *Apply* button again after correcting all the errors
- Use *Sync* button (see Figure #5 above) to synchronize device timer with PC clock. Note that after synchronization past entries will be removed from the schedule

HINT: Use the popup menu (see Figure #5 above) which can be activated by the right mouse button click over the table.

The following are the rules for creating a correct schedule:

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- The new event time should be in the future
- There can not be a duplicate entry
- The total quantity of events can not exceed 16 per socket
- The total quantity of events also depends on the total execution period of the schedule
- The interval between the present and the last entry can not exceed 180 days
- Without loop the total execution period of the schedule can not exceed 215 days
- Loop period can not exceed 180 days

NOTE: If the device is powered off the hardware schedule is still in the device memory and will be resumed when the power supply is restored. However the whole schedule will be then delayed with the power cutoff time. EG-PMSU will then start beeping indicating the hardware schedule problem. Press “Silence” button (see Figure #1 above) once to turn the beeps off if you don’t care about the accuracy of your schedule. You can also adjust the schedule eliminating the delay. Every time you press the “Silence” button again after the beeps were off, the schedule will be adjusted with one minute. Alternatively create and upload a new schedule using the ‘**Timer schedule**’ dialog box.

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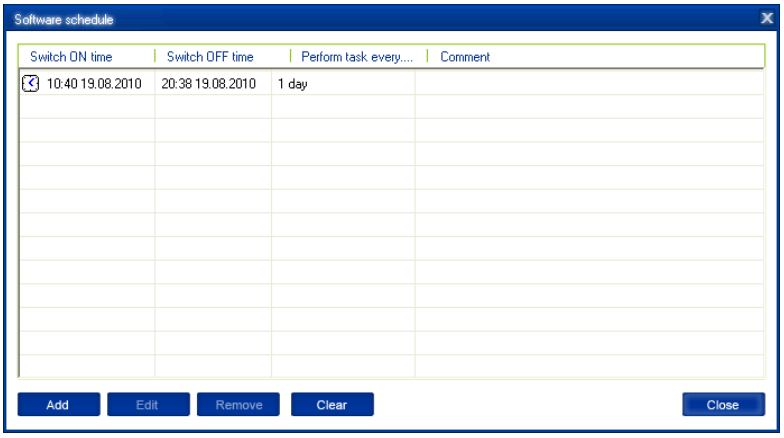
4.3. Setting up the software schedule

Using the *Software schedule* button available from the Settings window you can create the software timer schedule (see Figure #9 below).

NOTE: the software timer schedule will only be executed if the managing computer is on and the Power Manager is launched.

Figure #9



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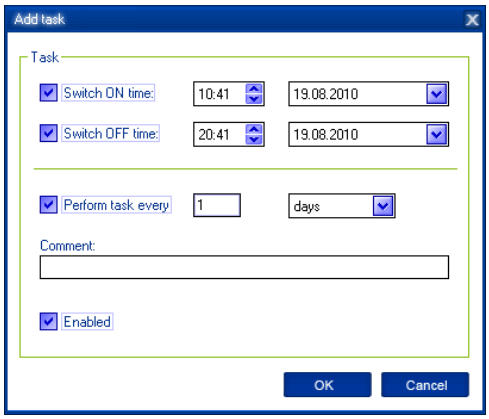
- To add a new task, click the *Add* button. The *Add task* window will appear (see Figure #10 below)

Figure #10



In the *Add task* window, check *Switch ON time* and/or *Switch OFF time* checkboxes and specify the time to switch the socked on and/or off. If you want the same event to be performed periodically, check *Perform task every* checkbox and specify the time interval. You can also add remarks about the task in the *Comment* field. To disable the task,

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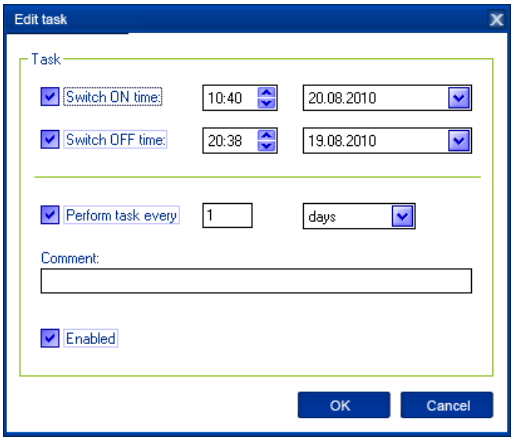
uncheck the *Enabled* checkbox and to enable the task again, re-check the checkbox.

- To edit the task, select it (see Figure #9 above) and click the *Edit* button or just double click on the task. The *Edit task* window will appear (see Figure #11 below)

Figure #11



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- To remove the task select it and click the *Remove* button (see Figure #9 above). You may select multiple tasks using *Ctrl* and *Shift* keys. You can also remove all tasks by clicking the *Clear* button

HINT: Use the popup menu which can be activated by the right mouse button click over the table (see Figure #9 above).

4.4. Setting up application events

Using the *Application events* window you can specify the socket events when a certain application is launched or closed down. You can also associate switching the sockets off or on with placement and removal of particular files in certain folders.

To use this feature push *Application events* button available from the Settings window (see section 4.1 above – Figure #4). You will get the following window (see Figure #12 below).

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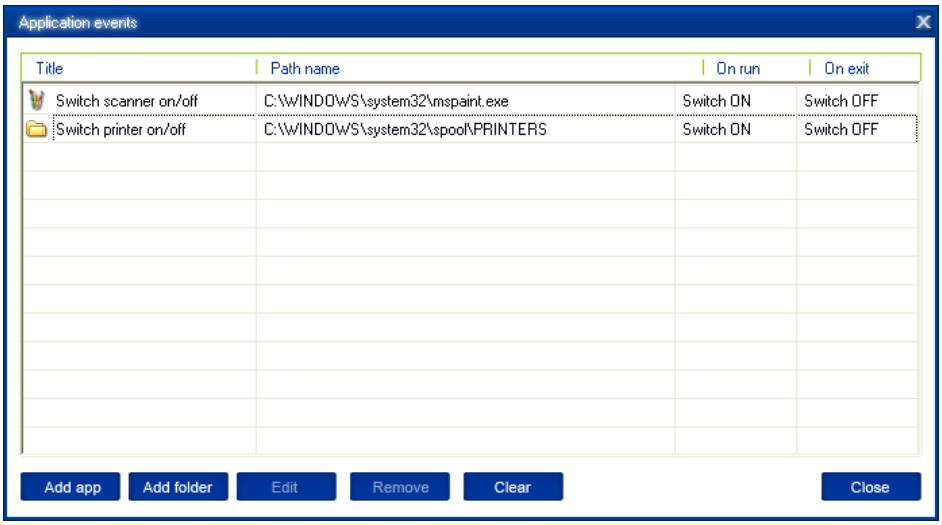
Figure #12



- To add a new program event, click the *Add app* button. The *Add program event* dialog will appear (see Figure #13 below)

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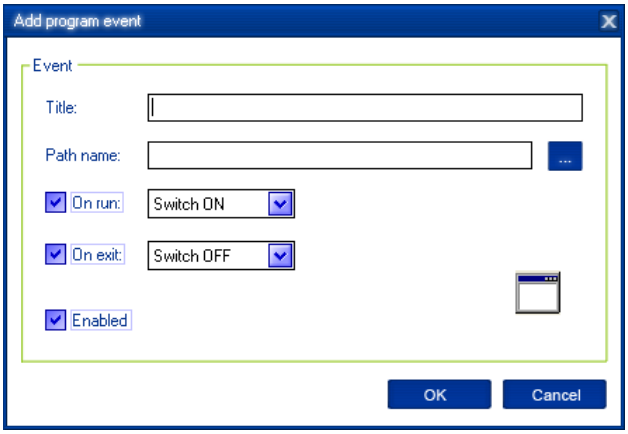
Figure #13



Specify the application title and path to it using the *Browse (...)* button or typing it manually in the *Title* and *Path name* fields. If you use the *Browse (...)* button you can also select a shortcut to the application. In this case the application title and path name will be taken automatically

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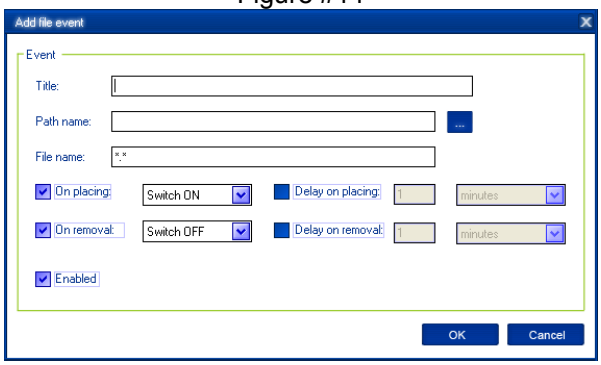
via the shortcut if possible. After you have specified the application, check *On run* and/or *On exit* and choose the event (switch on or off).

NOTE: The *On run* event will take place when the first window of the selected application is opened. The *On exit* event will take place when the last window of the application is closed.

HINT: Your device is an advanced standby-killer. Using this feature you can for example switch your scanner on/off whenever Photoshop is started/closed.

- To add a new file event, click the *Add folder* button (see Figure #12 above). The *Add file event* window will appear (see Figure #14 below)

Figure #14



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Specify the path to the folder you would like to monitor using the *Browse (…)* button or typing it manually in the *Path name* field. Specify the *File name* mask using wildcard characters: *, ?. Check then *On placing* and/or *On removal* checkboxes and select the event and delay.

NOTE: The *On placing* event will take place when the first file matching the specified file name mask is placed into the specified folder. The *On removal* event will take place when the last file matching the specified file name mask is removed from the specified folder.

HINT: Your device is an advanced standby-killer. Use the *Add folder* button to assign *c:\\system32\\spool\\printers* folder to switch your printer on whenever you start printing and to switch it off again whenever you are ready with printing.

HINT: If you have several printers connected to the same computer, we suggest moving default spool directory of each printer to a separate location.

- To edit the event, select it and click the *Edit* button, or just double click on the event (see Figure #12 above). The *Edit file event* window will appear (see Figure #15 below)

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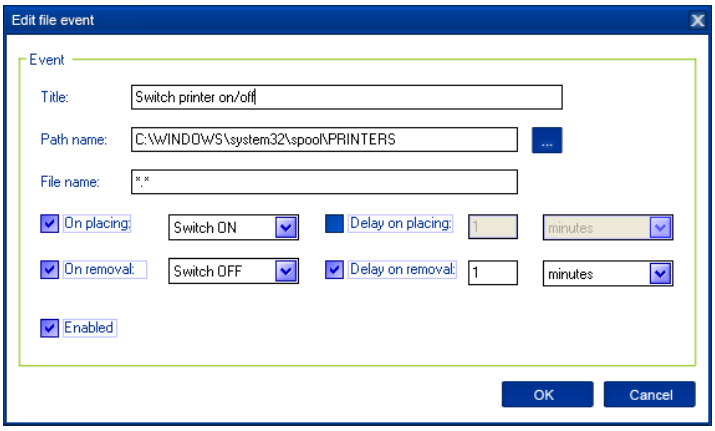
Figure #15



- To remove the event, select it and click the *Remove* button (see Figure #12 above). You can select multiple events using *Ctrl* and *Shift* keys. You can also remove all events by clicking the *Clear* button

HINT: Use the popup menu which can be activated by the right mouse button click over the table.

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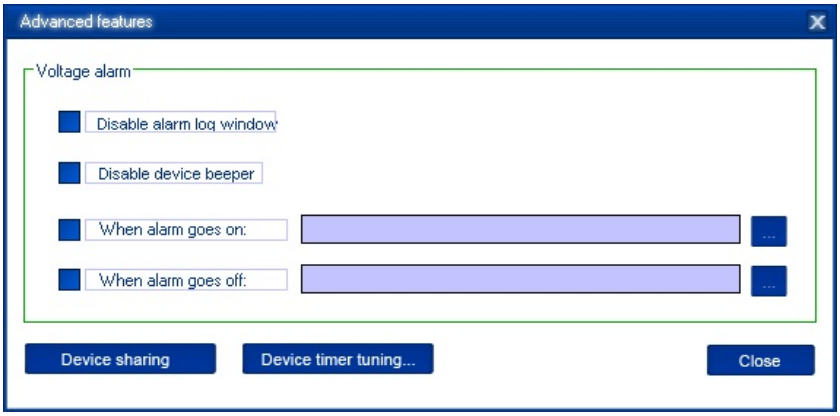
5. Power Manager advanced features

The following information is for advanced users which wish to have full access to the advanced features of EG-PMSU. Click the *Advanced features* button available from the Settings window (see section 4.1 above). The following window will then appear (see Figure #16 below).

Figure #16



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5.1. Processing the alarms

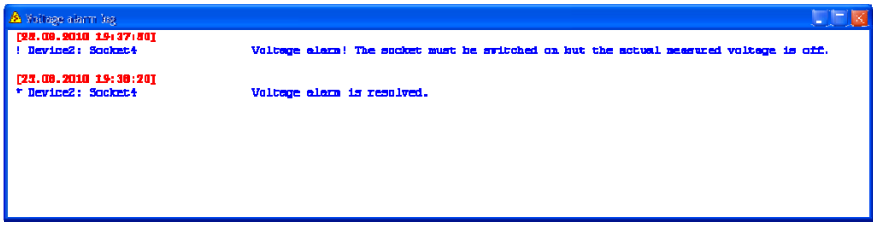
Whenever the actual measured voltage on the manageable socket deviates from the status set by your switching tasks, it is called a *Voltage alarm*.

The *Voltage alarm* can for example be caused by a blackout and will be resolved after power returns. The *Voltage alarm* can also be triggered if for any reason a switching task could not be carried out (switching malfunction).

Voltage alarms are accompanied with beeps (unless “Disable device beeper” option is activated)

The default action by an alarm is to record this event into a log file and show a popup *Alarm log* window (see Figure #17 below).

Figure #17


[22.08.2010 19:37:50]
! Device2: Socket4
Voltage alarm! The socket must be switched on but the actual measured voltage is off.
[21.08.2010 19:30:20]
* Device2: Socket4
Voltage alarm is resolved.

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You might wish to process this situation in a different way, e.g. send an email message somewhere etc.

- Check the *Disable alarm log window* checkbox to disable the popup *Alarm log* window (applies to all devices)
- Check the *When alarm goes on* checkbox, then click the *Browse(…)* button to select the desired program to be launched whenever a voltage alarm is triggered
- Check the *When alarm goes off* checkbox, then click the *Browse(…)* button to select the desired program to be launched after the alarm status (see above) is resolved

5.2. Setting up network devices

You can declare EG-PMSU as a shared device on your server and let the other users access it via the server.

To make EG-PMSU shared on your computer press the button *Device sharing...* in the *Advanced features* window (see Figure #16 above). The window *Device sharing* will appear (see Figure #18 below)

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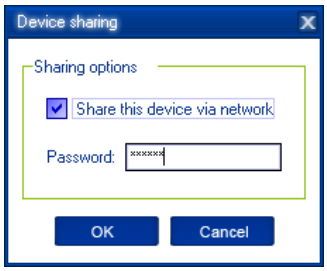
Figure #18



Set the checkbox *Share this device via network* if you want to enable the network access to the device (via this PC). To prevent unauthorized access to the device enter the access password in the field *Password*. **NOTE:** The port 6100 should be open. Contact your LAN administrator for further details.

To be able to use this shared EG-PMSU on a client PC choose *Shared devices* from the *Main menu* (see Figure #4 above). You will get the following window (see Figure #19 below).

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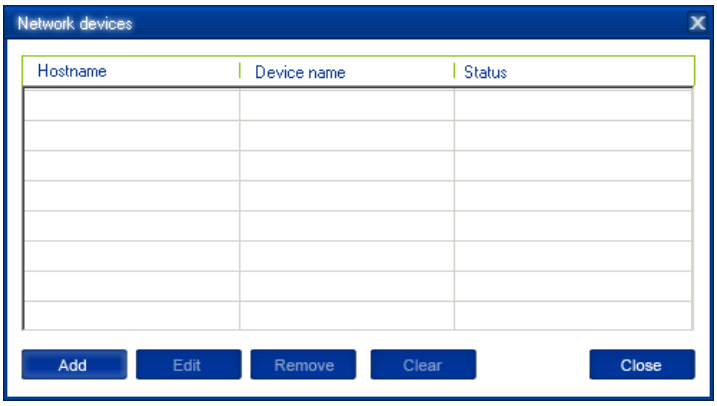
Figure #19



To add a new remote device, press the *Add* button. You will see the window *Add network device* (see Figure #20 below).

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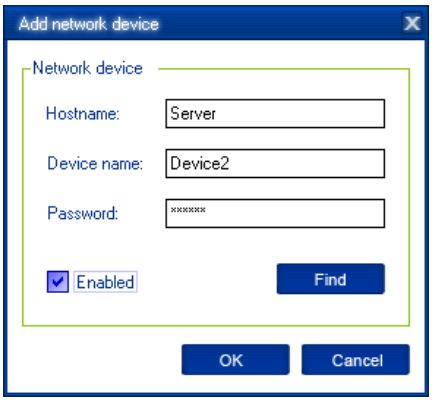
Figure #20



Enter the network name of the server which is connected to EG-PMSU in the field *Hostname*. Enter the name of the target EG-PMSU in the field *Device name*. Enter access password in the field *Password*. To disconnect from the device uncheck the option *Enable*, set this option on again to regain the access. To locate the shared device in your local network, click the button *Find*. A dialog box *Find network device* will

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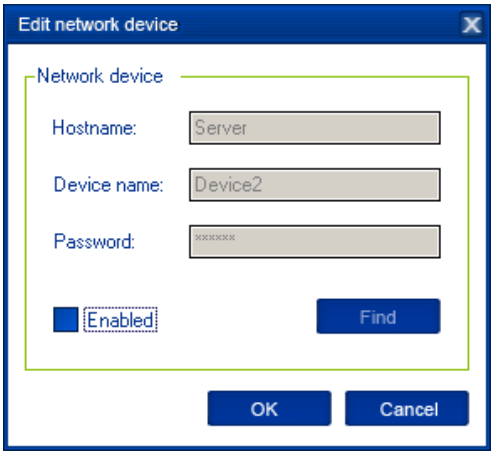
appear. Choose the proper server and then the device and click *OK* button.

To edit the network device, select it and click the *Edit* button, or just double click on the network device (see Figure #19 above). *The Edit network device* window will appear (see Figure #21 below).

Figure #21



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To remove the network device, select it and click the *Remove* button (see Figure #19 above). You can select multiple network devices using *Ctrl* and *Shift* keys. You can also remove all network devices by clicking the *Clear* button

HINT: Use the popup menu which is available with the right mouse button click over the table.

5.3. Managing device beeper and timer

EG-PMSU produces quite a few audible signals (see Section 2.3 above). If these signals are not desirable then set the option *Disable device beeper* in the *Advanced features* window (see Figure #16 above).

Another useful option available from the *Advanced features* window (see Figure #16 above) is the tuning of the device timer. Synchronization of the device timer with the managing PC timer is available by using *Sync* button from the *Time schedule* window (see Figure #16 above). If the device timer has a certain daily error it can be corrected using this tuning option.

Push Device timer tuning button to access the *Device time tuning* window (see Figure #22 below)

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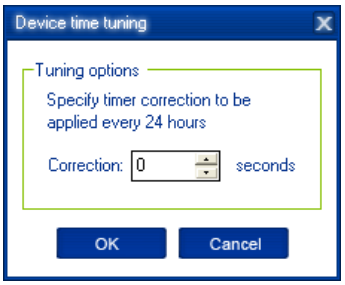
Figure #22



Enter the correction value (in seconds) which will be applied every 24 hours and push OK button.

5.4. Managing EG-PMSU via your own software

To let you switch the sockets from your own applications the following command line interface syntax is supported:

- pm.exe -[on | off] -device name -socket name

Examples:

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- "C:\Program Files\Energenie\Power Manager\pm.exe" -on -EG-PM -Socket1
- "E:\Utils\PM3\pm.exe" -off -My EG-PM -Table lamp

- Execute pm.exe with -info key (*pm.exe –info*) to get the complete information about the status of the current devices.

For each of the connected devices the following information will then be provided and placed into *Info.ini* file in the *Power Manager* folder:

- DeviceName - the user specified device name
- Socket#name, where # is replaced by a certain socket number - the user specified socket name
- Socket#SwitchState, where # is replaced by a certain socket number - TRUE, when the socket is switched on, FALSE, when the socket is switched off
- Socket#VoltageState, where # is replaced by a certain socket number - TRUE, when voltage presence on the socket is detected, FALSE, when there is no voltage on the socket;
  Example:

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NOTE: Each use of this command line option totally overrides the data in Info.ini file.

NOTE: *Power Manager* should be active.

5.5. EG-PMSU SDK

For advanced users we supply the software development kit (SDK) to manage the device. Check the SDK manual in SDK folder on the supplied CD to get more information about it.

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6. Troubleshooting

Problem	Solution
The circuit breaker is activated (tripped).	The load connected to the device is too high, some of the devices connected to the EG-PMSU should be disconnected and the circuit breaker should be reset.
The switching command is not carried out, the rocker switch and indicators are not lit.	There is no power supply to the EG-PMSU. Please, make sure the EG-PMSU is connected to the power supply and the rocker switch is switched on.
Software reports "Device I/O request error" after switching	Check the grounding of EG-PMSU. If inductive load, like florescent lamps or motors are connected to EG-PMSU, it is recommended to use an extra USB hub to connect EG-PMSU to the managing computer.
Timer schedule is delayed	Do not power EG-PMSU off when the hardware timer schedule is active. Press the “Silence” button, every push will reduce the delay with one minute.

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Waste disposal: Do not deposit this equipment with the household waste. Improper disposal can harm both the environment and human health. For Information about waste collection facilities for used electrical and electronic devices, please contact your city council or an authorized company for the disposal of electrical and electronic equipment.	**Entsorgungshinweise:** Werfen Sie dieses Gerät nicht in den Hausmüll. Unsachgemäße Entsorgung kann sowohl der Umwelt als auch der menschlichen Gesundheit schaden. Informationen zu Sammelstellen für Altgeräte erhalten Sie bei Ihrer Stadtverwaltung oder einer autorisierten Stelle für die Entsorgung von Elektro-und Elektronikgeräten.
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